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Water Pollution Control Division

FACILITIES INSPECTION SECTION INSPECTION REPORT FORM



Name of Company	U. S. steel Corp	Date 9-26-83
City Gary		e Telephone No. 944-3385
Persons Contacted	Robert Treziak, Enviro	nmental Engr
		gradient was de la gradient de la g
Purpose of Inspection_	routine plus inspectio	n of 84 inch recycle system
Products Basic St	teel	
No. of Employees 1900	OO Receiving Stream Gr.	Calumet River and Lake Michigan
Source of water Lake	Michigan No. of Ou	tfalIs numerous
Sewage disposal Ci	ty Waste fI	ow varies with production
Permit No. IN 0000	0281 Certif	ied Operator Nordlund and others
Status:Ade	equateInadequate_	Undertermined - Submitted By R. Cleaton

Description of production, manufacturing operations, waste treatment facilities, liquid waste disposal, cooling water additives, boiler treatments, permit compliance General remarks, recommendations, conclustions.

This inspection was of a two fold purpose- routine in spection of some of the outfalls and inspection of the 84 inch rolling mill recycle complex.

Outfalla inspected were:

- 001 slight popping oil in effluent
- 002 clear water, no oil or grease
- large amounts of algae in discharge and popping oil to surface the boom at this outfall was deemed to be 50% effective. Oil was getting under the boom at the terminus of the skimmer. The skimmer was operating but not effectively getting only about 50% of the oil
- 015 clear-no detrimental conditions observed
- 017 no flow
- 019 slite sheen of oil present, clear
- 020 a reddish brown color and medium scum present. This outfall

serves the venturi scrubber at the BPO shop

State Form 37942

021 No flow

The boom at this location appeared to be doing a good job. accumulations of oil from upstream were being removed for further treatment.

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032 orange in color Buchanan St bridge-oil sheen observed on the surface of the River 034 only the belt skimmers were working. The Lockheed skimmers had been removed from service and so large amounts of oil were bypassing the weirs and thus getting into the outfall. The Company had caused the basins to be dredged in the past months putting the sludge into the sludge basin on the North side of the treatment system.

Inspection of the 84 inch recycle system-The construction is about 98% complete. Small minor details remain to be worked out w with the contractor. Plans are to put the system "on line" the weekend of Oct 1. 2nd and 3rd. The whole system is quite complex but appears to be well enginered. Some of the portions of the recycle complex were operational but not enough water was being treated to make a determination of final results of the operation. Further inspection will be required of the treatment system.

Water Pollution Control Division

FACILITIES INSPECTION SECTION INSPECTION REPORT FORM

Name of	Company	U. S. Stee	al, Gary	Works	· ·	Da	te	9-21-	82	·
City	Gary	· .	County_	Lake		Telep	hone N	٥		·····
Persons	Contacted	Victo	Victor Nordlund, Environmental Engeer							
	· · · · · · · · · · · · · · · · · · ·	· ·		<i>:</i>						
Purpase	of Inspec	tion_Rout	ine							
Product	a Basi	c Steel					·			
No. of	Ezployees_	·	Recaiving	Stream_	Grand	Calumet	River	and	Lake	Michigan
Source	of water_	Lake Mic	nigan	No.	of outf	clls	numero	ius		
Sevage	disposal_	City		Was	te flow	varies	with	produ	action	1 .
Permit	No. IN	0000281	,	Ce	rtified	Operator	mar	ıу	······································	
Status:	<u> </u>	Adequate		Inade	quate		Und By_	eterm:	ined-S Cleate	ubmitted on

Description of production, manufacturing operations, waste treatment facilities, liquid waste disposal, cooling water additives, boiler treatments, permit compliance. General remarks, comments, recommendations, conclusions.

This was a routine inspection of some of the facilities and some of the outfalls of this steel complex. First it must be known this company is a a very low rate of production. Only three blast furnaces are operating and many steel producing facilities are shut down with their respective workers laidoff. Thus the quantity of water used in the steel making process is quite low. The water treatment facilities are, however, adequately maintained and appeared to be producing a good quality of effluent except where noted in the following summary. It must be noted an attempt was made to survey the Lake outfalls but the high winds and waves prevented any inspection of such outfalls.

Summary of inspection results

Head of Grand Calumet River 002 007

low flow, water clear, no oil or floating solid spotty oil popping to surface, fairly clear clear

010	Clear
015	Clear
017	Clear
018	slitely cloudy but a high amount of oil observed
	being discharged with the water. Mr. Nordlund and I attempted to find the problem to no avail phone calls to the various producing divisions
•	elicited no information. Mr. Nordlund to investigate
	further and to report to me by phone as to the re- sults of his inquiry.
019	clear
020	slithyl red color form BPO shops
021	clear

It must be noted the boom at this series of outfalls was being repositioned We were told it had broke loose during the night. Crews were attempting to re-anchor. Therefore the skimmer was not removing the oil as well as possible. Observations showed that other downstream skimmers were "catching" the floating oil getting by this malfunctioning skimmer.

028	slite red color but nothing more than normal
030	same as 028
034	one cell operating. cleaning W. cell. Sight
	popping of oil from solids. Slite red color to
	effluent but otherwise clear.

Inspection of the 84 inch scale system showed good operation. The Central Waste Treatment devices were in good condition and producing a good effluent.

A cursory inspection was made of the 84 inch recycle system. I was told it is about 75% complete and scheduled for operation about March 1983. A final inspection will be made about that time.

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Water Pollution Control Division

FACILITIES INSPECTION SECTION INSPECTION REPORT FORM

Name of Company	u. S. Ste	21 Compan	y -			Date	6-16-83	
City Gary	9 1 1 m					ال		
Persons Contact		V			•	800	N - 4	
Purpose of Insi	pection rou	tine			· :			
Productz								
No. of Exploye	es_ 15000	Recaiving	Stroum	Grand	Calume	t River	and Lake	Michigan
Source of wate						numerou	:s	·
Sevage disposa	l City	1		te flo	vari	es with	Producti	on
Permit No.	IN 0000281	•	Ce	rtific	d Operat	or Nor	dlund and	others
Status:			•	•		Вv	letermined- R. Cleat	Submitted con
	in the Same						the state of the s	

Description of production, manufacturing operations, waste treatment facilities, liquid waste disposal, cooling water additives, boiler treatments, permit compliance. General remarks, comments, recommendations, conclusions.

This was a routine inspection of portions of the plant and its outfalls but was stopped short by problems found at two of the outfalls. These problems and their resolution are outlined below.

The head of the Grand Calumet River flowing from Marquette Park lagoons was found to be clear and a low flow.

Outfall 002- clear with small fish observed in the water, Outfall 003-clear with fish observed in cooling water, Boom Ok at this location and oil skimmer working satisfactorily, Outfall 015-clear no problems Outfall 018. yellow in colorosee inspection efforts, Outfall 022-020-quite red with foam-see inspection efforts. Outfall 021-no flow. Boom working Ok at this location.Outfall 019-clear with no problems.

Outfall 034-slight grey cast. It was noticed that the oil skimmer tank motors both had excessive noise. It was pointed out to Mr. Trezak that failure of these pump motors could result in a oil spill to the treated waters and thus to the River. He contacted maintenance for

State Form 3704 Repair. (over)

SHIIGS-0G1

The problem withOutfall 018 was traced, after much effort, to cleaning problems with a boiler a t the #2 boiler-turbo house. The workers at that location had a boiler down for repairand routine maintenence and had flushed scale, etc down the sawer not notifying environment people. This was initially notice about 10:00am. After spending one hour 15 minut tracing the cause and correcting the problem a return trip to the outfall showed the color had dissapated. No samples were taken and it was not known if the permit conditions were violated.

The problem with outfall 020 was an excessive amount of red water with a high amount of foam present. This outfall serves, amoung other steel making operations, the venturi scrubber on No 1 BOP shop. Mr. Trezak and drove around the various water pretreatment facilities trying t establish the cause tof the problem and found all the operations normal, valves that could bypass closed, etc. We drove to the environmental office and talked with a Mr. Kubiak, an air engineer. He explained that this condition occured twice a year when the ambient air was either excessively heated or cooled. He explained that the damper system on the three BOP vessels has to be adjusted to compensate for the extremes in the ambient air. It must be noted that this past week has seem temperatures rise from an average of mid 60's to high 80's and 90's. Mr. Kubiak explained that the design does not seem to lend itself to automatic controls but is merely manually adjusting the dampers to give the best treatment in the scrubber system.

I asked that sampling be undertaken and if the permit values are exceeded to write a letter of explanation stating the above with additional explanation. A reinspection at 3:00pm showed the same conditions of red water and foam still occuring.

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